

To: Ramona Swenson, Trinity and Associates (S10) 6898874
FROM: Tom Keegan, EIP Associate
RE: Comments to 6.0

page 1

Sect. 6.1 Take out all recommendations for further study out of this section. Out of place.

Also, include Pacific lamprey as anadromous fish species

Also, USE HEADERS!!!

Pg. 6.3 2nd paragraph, inappropriate use of PHABSIM results to lump all life stages together. ~~the~~

Pg 6.7 I question the assumption of temperature being significantly affected by streamflows in paragraph 2. Air temp. is more important

Sect. 6.2 way too long and wordy. Repetitive. State major points with support - 2 paragraphs max.

Pg 6-12 2nd paragraph. Water quality and habitat studies are being conducted in lagoon.

Recommendation for further study:

A lot of the writeup here is already being done. Is this document supposed to supplant the work plan? Technical detail is not needed here (e.g., filling out data sheets) but rather ^{brief} description of the results of each job, provide recommended further study and rationale.

- I strongly disagree that aerial photography cannot be used for habitat mapping. It certainly can be used for mesohabitat typing (w/ 20% ground truthing) and for passage barrier analysis. more to come

TO: Ramona Symeon, Trickey & Associates (510) 689 8874
FROM: Tom Keegan, ETP
RE: Page 2, comments

- pg 6-18 I would not be so strong in recommending G15 at this time. Though G15 is powerful with the right type of data, and complete data sets, I'm not sure how management plan would be augmented through G15. I would evaluate the potential for G15.

Job 2 - pg 6-19

- We know that electrofishing is more quantitative than visual surveys. But, we also know that electrofishing is difficult at best in the SY River when algae is present.
- I would omit section on Quantitative Methods (pg 6-20). I do not think that density is such an important parameter - and I do not think that electrofishing in algae is quantitative! Plus - potential damage in warm water to fish is too high!
- I'm not sure why we would want to focus on freshwater gobies. Haven't we determined that the ^{potential} range of flows to be discharged from Bradbury Dam would not affect the lagoon in most months?
- Regarding redd surveys - I think you could cover most of the available spawning habitat in the SYR in a day. Tributaries would be more difficult. But trapping works in trib.

To: Ramona Sweeney, Trinity and Associates (S10) 6898874
FROM: Tom Keegan, EIP Associate
RE: Page 3, comments

pg. 6-22 Discussion of data problem with documenting spawning activity is not necessary. Discussion of spawning survey should focus on collecting information associated with Redds (pit depth, tail depth, velocities at pit and tail, etc.).

pg 6-23 Adult & juvenile migration do not necessarily occur during peak of peak flow (paragraph), but during descending hydrograph. Small point, but important. Because traps can be removed during flood event, and reinstalled as flows recede.

6-22 Again, with the Midwater goby! This has been said before.

Job 3. Chuck's new section is much improved.
This should serve as a model (format) for the other Jobs. Still a bit repetitive.

Job 4. Headers!!

~~water temperature modeling~~. Repetitive. Just say one time what modeling should occur with specific objectives.

• Vertical temp & D.O. in Lake also important for considering downstream options (Gilliton Creek, Mainstem discharge)

To: Ramona Swanson, Trickey and Associates (S10) 6898874
FROM: Tom Keegan, EIP
RE: Page 4, comments

Job 5. I would add surveying & hydrology studies to be performed on tributary, especially at confluence with SXR to determine constraints to passage (up & downstream). This will be needed if any habitat restoration/modification is to be conducted in the tributary. In particular, Hilton Creek, since most adults appear to spawn there. A quantitative estimate of spawning habitat and nearby habitat should be performed in tributaries and compared with that in the mainstem to evaluate priority habitat restoration opportunity.

pg. 6-34. Discussion of determining anadromy or resident stock on S. California Est... should add that it would be important to know stock origins for other management considerations (e.g., suitable water temperature, habitat). Southern stock would have different suitability criteria than northern stock.

In general, this report is too verbose & repetitive.
It needs editing.